

For ZyXel USG Router support, call 717-665-2141 or go to <http://electsys.biz/phone-service-request.php>

Streamlined management

Unified security policy streamlines the configuration of firewall and every security feature to offer faster, easier and more consistent policy management. From a single interface, users can apply all policy criteria to every UTM feature with reduced complexity. The integrated WLAN controller also enables users to management up to 18 APs from a centralized user interface.

More Wi-Fi

Addressing the trend of BYOD, the ZyXEL USG Advanced Series helps SMBs satisfy the Wi-Fi demand for an exploding amount of smart devices. The Series is integrated with a WLAN controller that enables businesses to easily scale up the WLAN and provide Wi-Fi in multiple areas like meeting rooms and guest reception areas.

Next-Gen USG Advanced Series

USG310 Unified Security Gateway



- 8 x GbE RJ-45, 2 x USB (multi-WAN & mobile broadband)

USG210 Unified Security Gateway



- 7 x GbE RJ-45, 2 x USB (multi-WAN & mobile broadband)

USG110 Unified Security Gateway



- 7 x GbE RJ-45, 2 x USB (multi-WAN & mobile broadband)

Next-Gen USG Quick Finder

| | Performance Series | | Advanced Series | | | Extreme Series | |
|---|-------------------------|---|-----------------|----------|----------|----------------|-----------|
| Model | USG40/40W | USG60/60W | USG110 | USG210 | USG310 | USG1100 | USG1900 |
| Description | Performance Series | | Advanced Series | | | Extreme Series | |
| Firewall throughput | 400 Mbps | 1.0 Gbps | 1.6 Gbps | 1.9 Gbps | 5.0 Gbps | 6.0 Gbps | 7.0 Gbps |
| VPN throughput | 100 Mbps | 180 Mbps | 400 Mbps | 500 Mbps | 650 Mbps | 800 Mbps | 900 Mbps |
| UTM throughput (AV and IDP) | 50 Mbps | 90 Mbps | 250 Mbps | 300 Mbps | 400 Mbps | 500 Mbps | 600 Mbps |
| Max. TCP concurrent sessions | 20,000 | 40,000 | 60,000 | 80,000 | 100,000 | 300,000 | 500,000 |
| Recommended # of users | 1 - 10 | 10 - 25 | 25 - 50 | 50 - 75 | 75 - 200 | 200 - 350 | 350 - 500 |
| Wi-Fi | 802.11 b/g/n 2.4 GHz | 802.11 a/b/g/n Concurrent 2.4 & 5 GHz | - | - | - | - | - |
| Managed AP number (default/max.) | 2/10 | 2/10 | 2/18 | 2/18 | 2/18 | 2/18 | 2/18 |
| UTM licenses | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multi-WAN | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Unified security policy | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| SSL inspection | - | - | Yes | Yes | Yes | Yes | Yes |
| Device HA | - | - | Yes | Yes | Yes | Yes | Yes |
| Port grouping | Yes | Yes | Yes | Yes | - | - | - |

Feature Introduction



Multiple WANs

Multi-WAN & Mobile Broadband

The ZyXEL USG Advanced Series provides non-stop Internet uptime with multi-WAN and mobile broadband support. Multi-WAN works with two or more Ethernet WAN connections for active-active WAN load balancing or active-passive failover. Comprehensive mobile broadband USB modems are also supported for WAN backup.



VPN

Robust VPN

ZyXEL USGs support high-throughput IPSec, L2TP over IPSec and SSL VPN for a wide range of site-to-client and site-to-site VPN deployments. Reinforced with the advanced SHA-2 encryption, the ZyXEL USGs provide the most secure VPN for business communications.



VPN High Availability (HA)

VPN High Availability (HA)

ZyXEL USGs feature VPN HA to satisfy the demands of the most mission-critical VPN deployments. Supporting advanced GRE over IPSec technology, users can deploy two IPSec VPN tunnels for active-active VPN load balancing or active-passive failover.



Integrated WLAN Controller

Integrated WLAN Controller

The integrated WLAN controller supports CAPWAP, and enables centralized authentication and access management of multiple APs in the network. The ZyXEL USG Advanced Series can manage 2 APs by default, and up to 18 APs with license upgrade.



Unified Security Policy

Unified Security Policy

Unified security policy offers object-based management and a unified configuration interface for firewall and all security-related policies. Users can easily apply all policy criteria to every UTM feature, reduce configuration time, and get more streamlined policy management.



Application Intelligence

Application Intelligence

ZyXEL's USG Advanced Series can identify, categorize and control over 3,000 social, gaming, productivity, and other Web applications and behaviors. Users can prioritize productive applications, throttle acceptable ones, and block unproductive applications to boost productivity and prevent bandwidth abuse.



Anti-Virus

Anti-Virus

Powered by Kaspersky SafeStream II gateway anti-virus, ZyXEL USGs provide comprehensive and real-time protection against malware threats before they enter the network. ZyXEL USGs can identify and block over 650,000 viruses right at the gate and provide high-speed scanning with stream-based virus scanning technology.



SSL Inspection

SSL Inspection

SSL inspection enables the ZyXEL Advanced Series to provide not only comprehensive security, but also deeper policy enforcement. It enables the USG's application intelligence, IDP, content filtering and anti-virus to inspect traffic in SSL encrypted connections and block threats that usually go unseen.



Anti-Spam

Anti-Spam

With a cloud-based IP reputation system, ZyXEL anti-spam can deliver accurate, zero-hour spam outbreak protection by analyzing up-to-the-minute sender reputation data from highly diverse traffic sources. It can detect spam outbreaks in the first few minutes of emergence regardless of spam language or format.



Content Filtering

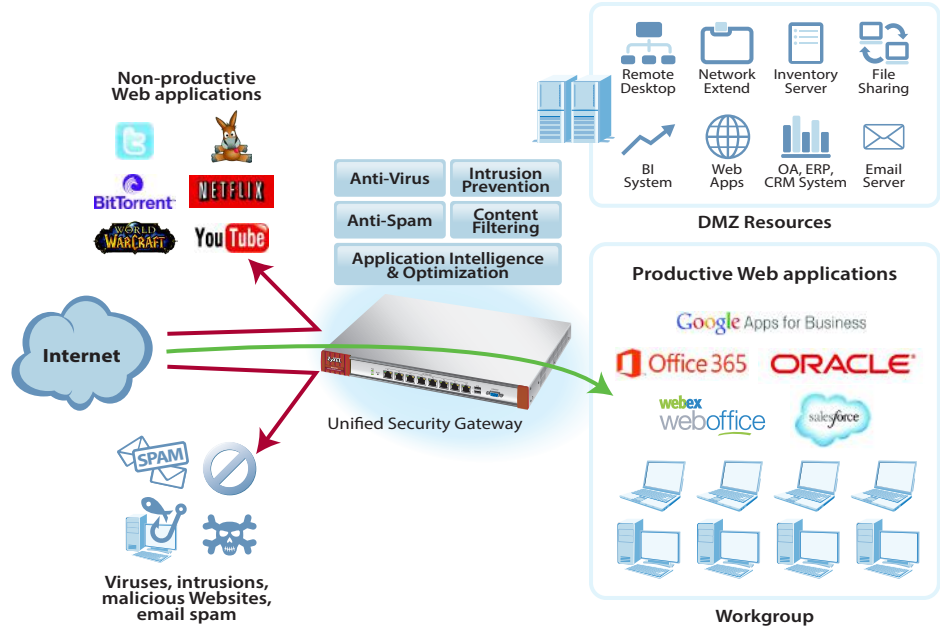
Content Filtering

ZyXEL content filtering helps screen access to websites that are not business related or malicious. With a massive, cloud-based database of over 140 billion URLs that are continuously analyzed and tracked, ZyXEL provides highly accurate, broad and instant protection against malicious Web content.

Application Diagram

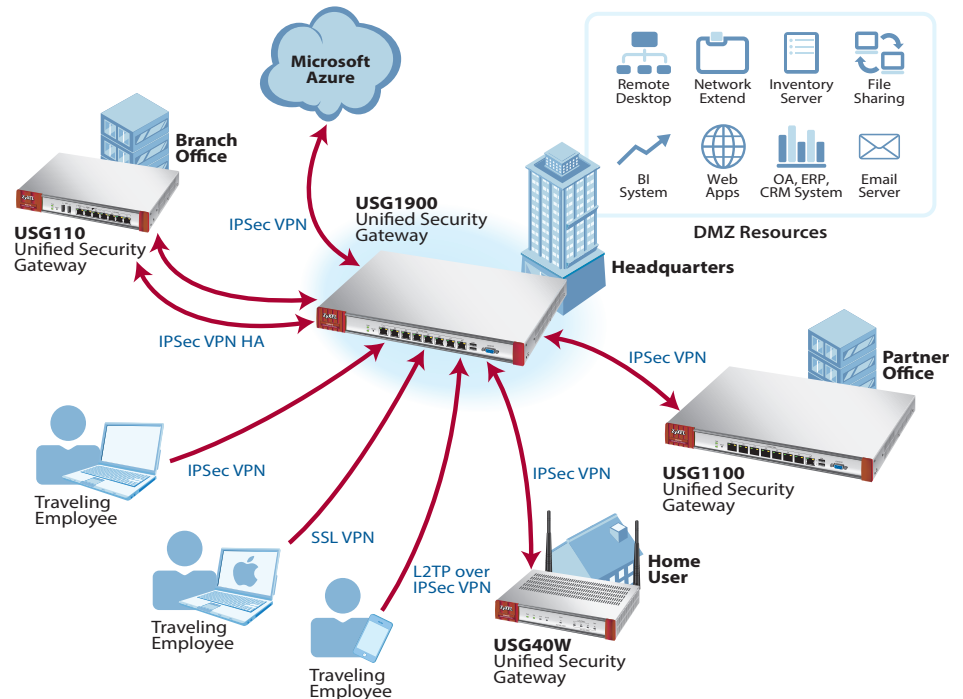
Anti-malware protection and application optimization

- Enabling anti-virus, anti-spam and intrusion prevention, business networks gain deep, extensive protection against all types of malware threats
- Content filtering enables businesses to deny access to Websites that are malicious or not business-related
- Application intelligence technology not only enable businesses to block or throttle non-productive Web applications, but also optimize Web applications that increase productivity



VPN application

- Branch offices, partners and home users can deploy ZyXEL USGs/ ZyWALLs for site-to-site IPSec VPN connections
- Branch offices can additionally deploy IPSec VPN HA (load balancing and failover) for always online VPN connectivity
- Remote users can securely access company resources with their computers or smartphones via SSL, IPSec and L2TP over IPSec VPN
- The headquarter USG/ZyWALL can also establish an IPSec VPN connection with Microsoft Azure for secured access to a variety of cloud-based applications



Specifications

| Model | USG310 | USG210 | USG110 | |
|---|---|--|--|-------------------------------------|
| Hardware Specifications | | | | |
| 10/100/1000 Mbps RJ-45 ports | 8 (configurable) | 4 x LAN/DMZ, 2 x WAN, 1 x OPT | 4 x LAN/DMZ, 2 x WAN, 1 x OPT | |
| USB ports | 2 | 2 | 2 | |
| Console port | Yes (DB9) | Yes (DB9) | Yes (DB9) | |
| Rack-mountable | Yes | Yes | Yes | |
| System Capacity & Performance^{*1} | | | | |
| SPI firewall throughput (Mbps)^{*2} | 5,000 | 1,900 | 1,600 | |
| VPN throughput (Mbps)^{*3} | 650 | 500 | 400 | |
| IDP throughput (Mbps)^{*4} | 450 | 350 | 300 | |
| AV throughput (Mbps)^{*4} | 400 | 300 | 250 | |
| UTM throughput (AV and IDP)^{*4} | 400 | 300 | 250 | |
| Unlimited user licenses | Yes | Yes | Yes | |
| Max. TCP concurrent sessions^{*5} | 100,000 | 80,000 | 60,000 | |
| New TCP session rate | 12,000 | 3,500 | 3,500 | |
| Max. concurrent IPsec VPN tunnels | 300 | 200 | 100 | |
| Max. concurrent SSL VPN users | 105 | 50 | 25 | |
| Included SSL VPN user no. | 25 | 10 | 5 | |
| Customizable zones | Yes | Yes | Yes | |
| IPv6 support | Yes | Yes | Yes | |
| VLAN interface | 64 | 32 | 16 | |
| WLAN Management | | | | |
| AP Controller (APC) ver. | 1.0 | 1.0 | 1.0 | |
| Managed AP number (default/max.) | 2/18 | 2/18 | 2/18 | |
| Key Software Features | | | | |
| Virtual Private Network (VPN) | Yes (IPsec, SSL, L2TP over IPsec) | Yes (IPsec, SSL, L2TP over IPsec) | Yes (IPsec, SSL, L2TP over IPsec) | |
| Firewall | Yes | Yes | Yes | |
| Anti-Virus (AV) | Yes | Yes | Yes | |
| Anti-spam | Yes | Yes | Yes | |
| Content Filtering (CF) | Yes | Yes | Yes | |
| Application intelligence and optimization | Yes | Yes | Yes | |
| Intrusion Detection and Prevention (IDP) | Yes | Yes | Yes | |
| SSL inspection | Yes | Yes | Yes | |
| Single Sign-On (SSO) | Yes | Yes | Yes | |
| WLAN controller | Yes | Yes | Yes | |
| Power Requirements | | | | |
| Power input | 100 - 240 V AC, 50/60 Hz, 1.3 A max. | 12 V DC, 3.33 A max. | 12 V DC, 3.33 A max. | |
| Max. power consumption (watt) | 58.5 | 37.0 | 37.0 | |
| Physical Specifications | | | | |
| Item | Dimensions (WxDxH)(mm/in.) | 430 x 250 x 44/16.93 x 9.84 x 1.73 | 300 x 178 x 44/11.81 x 7 x 1.73 | 300 x 178 x 44/11.81 x 7 x 1.73 |
| | Weight (Kg/lb.) | 3.3/7.28 | 2/4.4 | 2/4.4 |
| Packing | Dimensions (WxDxH)(mm/in.) | 519 x 392 x 163/20.43 x 15.43 x 6.42 | 351 x 149 x 243/13.82 x 5.87 x 9.57 | 351 x 149 x 243/13.82 x 5.87 x 9.57 |
| | Weight (kg/lb.) | 4.8/10.58 | 3.264/7.20 | 3.264/7.20 |
| Included accessories | <ul style="list-style-type: none"> • Power cord • Rack mounting kit | <ul style="list-style-type: none"> • Power adapter • Power cord • Rack mounting kit | <ul style="list-style-type: none"> • Power adapter • Power cord • Rack mounting kit | |
| Environmental Specifications | | | | |
| Operating | Temperature | 0°C to 40°C (32°F to 104°F) | 0°C to 40°C (32°F to 104°F) | 0°C to 40°C (32°F to 104°F) |
| | Humidity | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) |
| Storage | Temperature | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) |
| | Humidity | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) |
| MTBF (hr) | 560,811.5 | 787,109.3 | 787,109.3 | |
| Certifications | | | | |
| EMC | FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI | FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI | FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI | |
| Safety | LVD (EN60950-1), BSMI | LVD (EN60950-1), BSMI | LVD (EN60950-1), BSMI | |

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: AV and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

*5: Maximum sessions measured using the industry standard IXIA iLoad testing tool.



Authentication

- Local user database
- Microsoft Windows Active Directory integration
- External LDAP/RADIUS user database
- XAUTH, IKEv2 with EAP VPN authentication
- Web-based authentication
- Forced user authentication (transparent authentication)
- IP-MAC address binding
- SSO (Single Sign-On) support

Device High Availability (HA)

- Active-passive failover mode
- Device failure detection and notification
- Supports ICMP and TCP ping check
- Link monitoring
- Configuration auto-sync

System Management

- Role-based administration
- Multiple administrator logins
- Multi-lingual Web GUI (HTTPS and HTTP)
- Command line interface (console, Web console, SSH and TELNET)
- SNMP v2c (MIB-II)

- System configuration rollback
- Firmware upgrade via FTP, FTP-TLS and Web GUI
- Dual firmware images

Logging and Monitoring

- Comprehensive local logging
- Syslog (to up to 4 servers)
- Email alerts (to up to 2 servers)
- Real-time traffic monitoring
- Built-in daily report
- Advanced reporting with Vantage Report

Licenses

Security

| Product | Kaspersky Anti-Virus | Application Intelligence & IDP | Content Filtering | Anti-Spam |
|---------------|----------------------|--------------------------------|-------------------|-------------------|
| USG310 | 1 year 2 years | 1 year 2 years | 1 year 2 years | 1 year 2 years |
| USG210 | 1 year 2 years | 1 year 2 years | 1 year 2 years | 1 year 2 years |
| USG110 | 1 year 2 years | 1 year 2 years | 1 year 2 years | 1 year 2 years |

Notes:
 1. ZyXEL USGs can be purchased with bundled 12-month standard license (anti-virus, anti-span, content filtering and IDP) with extra 1-month trial.
 2. Licenses can be easily activated, renewed and managed at myZyXEL.com 2.0
 3. License bundles may vary according to region. Please contact your local sales representative for more information.


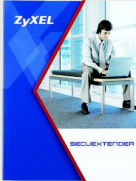
VPN, Management and Reporting

| Product | Managed APs | SecuExtender—SSL VPN Client | IPSec VPN Client | Vantage Report |
|---------------|-------------|-----------------------------|---|--|
| USG310 | Add 8 APs | Add 10 clients | For 1 client For 5 clients For 10 clients For 50 clients | For 1 device For 5 devices For 25 devices For 100 devices |
| USG210 | Add 8 APs | Add 10 clients | | |
| USG110 | Add 8 APs | Add 10 clients | | |

Access Point Compatibility List

| Series | NWA5120 Series | NWA5000 Series | NWA3000-N Series |
|---------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| | Unified Access Point | Managed Access Point | Unified Pro Access Point |
| Model | NWA5121-NI NWA5121-N NWA5123-NI | NWA5160N NWA5560-N NWA5550-N | NWA3160-N NWA3560-N NWA3550-N |
| Functions | | | |
| Central management | Yes | Yes | Yes |
| Auto provisioning | Yes | Yes | Yes |
| Data forwarding | Local bridge | Local bridge | Local bridge |

Accessories

| Item | Description | Supported OS |
|--|---|---|
| IPSec VPN Client  | IPSec VPN client software for the ZyWALL and USG Series with Easy VPN for zero-configuration remote access | <ul style="list-style-type: none"> • Windows XP (32-bit) • Windows Server 2003 (32-bit) • Windows Server 2008 (32/64-bit) • Windows Vista (32/64-bit) • Windows 7 (32/64-bit) • Windows 8 (32/64-bit) |
| SecuExtender— SSL VPN Client  | SSL VPN client software for the ZyWALL and USG Series with auto-installation in Windows, and lite set up for MAC user | <ul style="list-style-type: none"> • Windows OS • MAC OS 10.7 or later |

Notes:

1. A 30-day trial version of IPSec VPN client and SSL VPN client for MAC OS can be downloaded from official ZyXEL website. To continue using the application, please contact your regional sales representatives and purchase a commercial license for the application.

2. SSL VPN client for Windows OS is pushed from USG/ZyWALL device and launches automatically. It does not require a license key to activate the application.

For more product information, visit us on the web at www.ZyXEL.com



Copyright © 2014 ZyXEL Communications Corp. All rights reserved. ZyXEL, ZyXEL logo are registered trademarks of ZyXEL Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.





USG60/60W/40/40W Unified Security Gateway—Performance Series

Wi-Fi where you need it

Addressing the trend of BYOD, the ZyXEL USG Performance Series helps small businesses provide Wi-Fi wherever there is demand. The USG40W and USG60W feature built-in single-radio and dual-radio wireless access points that can provide Wi-Fi for small offices straight out of the box. With an integrated WLAN controller, the USG Performance Series enables businesses to easily provide Wi-Fi in multiple other areas like reception areas and meeting rooms when Wi-Fi demand grows.

Single point of management

Designed specifically for businesses with limited IT resources, the ZyXEL USG Performance Series helps users connect, protect and manage with reduced complexity. The unified security policy design offers easier, more unified and streamlined management of all the security features; while the integrated WLAN controller provides centralized management of up to 10 APs. All this is integrated into a single solution, making it easy for users to manage VPN, wireless and security all from one device.

Next-Gen USG Performance Series

USG60 Unified Security Gateway



- 6 x GbE RJ-45, 2 x USB (dual-WAN & mobile broadband)

USG60W Unified Security Gateway



- 6 x GbE RJ-45, 2 x USB (dual-WAN & mobile broadband)

USG40 Unified Security Gateway



- 5 x GbE RJ-45, 1 x USB (dual-WAN & mobile broadband)

USG40W Unified Security Gateway



- 5 x GbE RJ-45, 1 x USB (dual-WAN & mobile broadband)

Next-Gen USG Quick Finder

| Model | USG40/40W | USG60/60W | USG110 | USG210 | USG310 | USG1100 | USG1900 |
|----------------------------------|----------------------|---------------------------------------|-----------------|----------|----------|----------------|-----------|
| Description | Performance Series | | Advanced Series | | | Extreme Series | |
| Firewall throughput | 400 Mbps | 1.0 Gbps | 1.6 Gbps | 1.9 Gbps | 5.0 Gbps | 6.0 Gbps | 7.0 Gbps |
| VPN throughput | 100 Mbps | 180 Mbps | 400 Mbps | 500 Mbps | 650 Mbps | 800 Mbps | 900 Mbps |
| UTM throughput (AV and IDP) | 50 Mbps | 90 Mbps | 250 Mbps | 300 Mbps | 400 Mbps | 500 Mbps | 600 Mbps |
| Max. TCP concurrent sessions | 20,000 | 40,000 | 60,000 | 80,000 | 100,000 | 300,000 | 500,000 |
| Recommended # of users | 1 - 10 | 10 - 25 | 25 - 50 | 50 - 75 | 75 - 200 | 200 - 350 | 350 - 500 |
| Wi-Fi | 802.11 b/g/n 2.4 GHz | 802.11 a/b/g/n Concurrent 2.4 & 5 GHz | - | - | - | - | - |
| Managed AP number (default/max.) | 2/10 | 2/10 | 2/18 | 2/18 | 2/18 | 2/18 | 2/18 |
| UTM licenses | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Multi-WAN | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Unified security policy | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| SSL inspection | - | - | Yes | Yes | Yes | Yes | Yes |
| Device HA | - | - | Yes | Yes | Yes | Yes | Yes |
| Port grouping | Yes | Yes | Yes | Yes | - | - | - |

Specifications

| Model | USG60 | USG60W | USG40 | USG40W |
|---|----------------------|--|--|---|
| Hardware Specifications | | | | |
| 10/100/1000 Mbps RJ-45 ports | 4 x LAN/DMZ, 2 x WAN | 4 x LAN/DMZ, 2 x WAN | 3 x LAN/DMZ, 1 x WAN, 1 x OPT | 3 x LAN/DMZ, 1 x WAN, 1 x OPT |
| USB ports | 2 | 2 | 1 | 1 |
| Console port | Yes (DB9) | Yes (DB9) | Yes (RJ-45) | Yes (RJ-45) |
| Rack-mountable | Yes | Yes | - | - |
| Fanless | Yes | Yes | Yes | Yes |
| System Capacity & Performance^{*1} | | | | |
| SPI firewall throughput (Mbps) ^{*2} | 1,000 | 1,000 | 400 | 400 |
| VPN throughput (Mbps) ^{*3} | 180 | 180 | 100 | 100 |
| IDP throughput (Mbps) ^{*4} | 120 | 120 | 55 | 55 |
| AV throughput (Mbps) ^{*4} | 90 | 90 | 50 | 50 |
| UTM throughput (AV and IDP) ^{*4} | 90 | 90 | 50 | 50 |
| Unlimited user licenses | Yes | Yes | Yes | Yes |
| Max. TCP concurrent sessions ^{*5} | 40,000 | 40,000 | 20,000 | 20,000 |
| New TCP session rate | 3,000 | 3,000 | 3,000 | 3,000 |
| Max. concurrent IPsec VPN tunnels | 20 | 20 | 10 | 10 |
| Max. concurrent SSL VPN users | 12 | 12 | 7 | 7 |
| Included SSL VPN user no. | 2 | 2 | 2 | 2 |
| Customizable zones | Yes | Yes | Yes | Yes |
| IPv6 support | Yes | Yes | Yes | Yes |
| VLAN interface | 16 | 16 | 8 | 8 |
| WLAN Management | | | | |
| AP Controller (APC) ver. | 1.0 | 1.0 | 1.0 | 1.0 |
| Managed AP number (default/max.) | 2/10 | 2/10 | 2/10 | 2/10 |
| Wireless Specifications | | | | |
| Standard compliance | - | 802.11 a/b/g/n | - | 802.11 b/g/n |
| Wireless frequency | - | Concurrent 2.4 & 5 GHz | - | 2.4 GHz |
| Radio | - | 2 | - | 1 |
| SSID number | - | 16 | - | 8 |
| Maximum transmit power (Max. total channel) | US (FCC) 2.4 GHz | - | 24.3 dBm, 2 antennas | 24.3 dBm, 2 antennas |
| | US (FCC) 5 GHz | - | 25.8 dBm, 2 antennas | - |
| | EU (ETSI) 2.4 GHz | - | 17 dBm, 2 antennas | 17 dBm, 2 antennas |
| | EU (ETSI) 5 GHz | - | 25.6 dBm, 2 antennas | - |
| No. of antenna | - | 2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO (Detachable, SMA-R) | - | 2.4 GHz: 2T2R MIMO (Detachable, SMA-R) |
| Antenna gain | - | 3 dBi | - | 3 dBi |
| Data rate | - | 802.11 b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns) | - | 802.11 b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns) |
| Receive sensitivity | 2.4 GHz | - | 2.4 GHz: 11 Mbps ≤ -87 dBm 54 Mbps ≤ -77 dBm HT20 ≤ -71 dBm HT40 ≤ -68 dBm | 2.4 GHz: 11 Mbps ≤ -87 dBm 54 Mbps ≤ -77 dBm HT20, MCS15 ≤ -71 dBm HT40, MCS15 ≤ -68 dBm |
| | 5 GHz | - | 5 GHz: 54 Mbps ≤ -75 dBm HT20, MCS15 ≤ -71 dBm HT40, MCS15 ≤ -69 dBm | - |

| Model | USG60 | USG60W | USG40 | USG40W | |
|--|--|--|---|--|--|
| Key Software Features | | | | | |
| Virtual Private Network (VPN) | Yes (IPSec, SSL, L2TP over IPSec) | Yes (IPSec, SSL, L2TP over IPSec) | Yes (IPSec, SSL, L2TP over IPSec) | Yes (IPSec, SSL, L2TP over IPSec) | |
| Firewall | Yes | Yes | Yes | Yes | |
| Anti-Virus (AV) | Yes | Yes | Yes | Yes | |
| Anti-spam | Yes | Yes | Yes | Yes | |
| Content Filtering (CF) | Yes | Yes | Yes | Yes | |
| Application intelligence and optimization | Yes | Yes | Yes | Yes | |
| Intrusion Detection and Prevention (IDP) | Yes | Yes | Yes | Yes | |
| Single Sign-On (SSO) | Yes | Yes | Yes | Yes | |
| WLAN controller | Yes | Yes | Yes | Yes | |
| Power Requirements | | | | | |
| Power input | 12 V DC, 3.0 A max. | 12 V DC, 3.0 A max. | 12 V DC, 2.0 A max. | 12 V DC, 2.0 A max. | |
| Max. power consumption (watt) | 19.0 | 28.0 | 14.0 | 17.0 | |
| Physical Specifications | | | | | |
| Item | Dimensions (WxDxH)(mm/in.) | 242 x 175 x 36/ 9.53 x 6.89 x 1.42 | 272 x 171 x 36/ 10.71 x 6.73 x 1.42 | 216 x 143 x 33/ 8.50 x 5.63 x 1.30 | 216 x 143 x 33/ 8.50 x 5.63 x 1.30 |
| | Weight (kg/lb.) | 1.25/2.76 | 1.46/3.23 | 0.89/1.96 | 0.91/2 |
| Packing | Dimensions (WxDxH)(mm/in.) | 394 x 240 x 101/ 15.51 x 9.45 x 3.98 | 427 x 247 x 73/ 16.81 x 9.72 x 2.87 | 381 x 216 x 79/ 15.00 x 8.50 x 3.11 | 381 x 216 x 79/ 15.00 x 8.50 x 3.11 |
| | Weight (kg/lb.) | 2.25/4.96 | 2.23/4.92 (without bracket) 2.42/5.34 (with bracket) | 1.57/3.46 | 1.63/3.59 |
| Included accessories | <ul style="list-style-type: none"> • Power adapter • Rack mounting kit | <ul style="list-style-type: none"> • Power adapter • Rack mounting kit (optional, by regions) • Antenna | <ul style="list-style-type: none"> • Power adapter • DB9 - RJ-45 cable for console connection | <ul style="list-style-type: none"> • Power adapter • DB9 - RJ-45 cable for console connection • Antenna | |
| Environmental Specifications | | | | | |
| Operating | Temperature | 0°C to 40°C (32°F to 104°F) | 0°C to 40°C (32°F to 104°F) | 0°C to 40°C (32°F to 104°F) | 0°C to 40°C (32°F to 104°F) |
| | Humidity | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) |
| Storage | Temperature | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) | -30°C to 70°C (-22°F to 158°F) |
| | Humidity | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) | 10% to 90% (non-condensing) |
| MTBF (hr) | 815,463.9 | 497,644 | 414,329.4 | 386,931.7 | |
| Certifications | | | | | |
| EMC | FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI | FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI | FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI | FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI | |
| Safety | LVD (EN60950-1), BSMI | LVD (EN60950-1), BSMI | LVD (EN60950-1), BSMI | LVD (EN60950-1), BSMI | |

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: AV and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

Features Set

Software Features

Firewall

- ICSA-certified firewall (certification in progress)
- Routing and transparent (bridge) modes
- Stateful packet inspection
- User-aware policy enforcement
- SIP/H.323 NAT traversal
- ALG support for customized ports
- Protocol anomaly detection and protection
- Traffic anomaly detection and protection
- Flooding detection and protection
- DoS/DDoS protection

IPv6 Support

- IPv6 Ready gold logo (certification in progress)
- Dual stack
- IPv4 tunneling (6rd and 6to4 transition tunnel)
- IPv6 addressing
- DNS
- DHCPv6
- Bridge
- VLAN
- PPPoE

- Static routing
- Policy routing
- Session control
- Firewall and ADP
- IPSec VPN
- Intrusion Detection and Prevention (IDP)
- Application intelligence and optimization
- Content filtering
- Anti-virus, anti-malware
- Anti-spam

Licenses

Security

| Product | Kaspersky Anti-Virus | Application Intelligence & IDP | Content Filtering | Anti-Spam |
|------------------|----------------------|--------------------------------|-------------------|-------------------|
| USG60/60W | 1 year 2 years | 1 year 2 years | 1 year 2 years | 1 year 2 years |
| USG40/40W | 1 year 2 years | 1 year 2 years | 1 year 2 years | 1 year 2 years |

- Notes:
- ZyXEL USGs can be purchased with bundled 12-month standard license (anti-virus, anti-spam, content filtering and IDP) with extra 1-month trial.
 - Licenses can be easily activated, renewed and managed at myZyXEL.com 2.0
 - License bundles may vary according to region. Please contact your local sales representative for more information.



VPN, Management and Reporting

| Product | Managed APs | SecuExtender—SSL VPN Client | IPSec VPN Client | Vantage Report |
|------------------|-------------|-----------------------------|---|--|
| USG60/60W | Add 8 APs | Add 5 clients | For 1 client For 5 clients For 10 clients For 50 clients | For 1 device For 5 devices For 25 devices For 100 devices |
| USG40/40W | Add 8 APs | Add 5 clients | | |

Access Point Compatibility List

| Series | NWA5120 Series | NWA5000 Series | NWA3000-N Series |
|---------------------------|---------------------------------------|------------------------------------|-------------------------------------|
| | Unified Access Point | Managed Access Point | Unified Pro Access Point |
| Model | NWA5121-NI NWA5121-N NWA5123-NI | NWA5160N NWA5560-N NWA5550-N | NWA3160-N NWA3560-N NWA3550-N |
| Functions | | | |
| Central management | Yes | Yes | Yes |
| Auto provisioning | Yes | Yes | Yes |
| Data forwarding | Local bridge | Local bridge | Local bridge |

Accessories

| Item | Description | Supported OS |
|---|---|---|
| IPSec VPN Client  | IPSec VPN client software for the ZyWALL and USG Series with Easy VPN for zero-configuration remote access | <ul style="list-style-type: none"> Windows XP (32-bit) Windows Server 2003 (32-bit) Windows Server 2008 (32/64-bit) Windows Vista (32/64-bit) Windows 7 (32/64-bit) Windows 8 (32/64-bit) |
| SecuExtender—SSL VPN Client  | SSL VPN client software for the ZyWALL and USG Series with auto-installation in Windows, and lite set up for MAC user | <ul style="list-style-type: none"> Windows OS MAC OS 10.7 or later |







- Notes:
- A 30-day trial version of IPSec VPN client and SSL VPN client for MAC OS can be downloaded from official ZyXEL website. To continue using the application, please contact your regional sales representatives and purchase a commercial license for the application.
 - SSL VPN client for Windows OS is pushed from USG/ZyWALL device and launches automatically. It does not require a license key to activate the application.

For more product information, visit us on the web at www.ZyXEL.com



Copyright © 2014 ZyXEL Communications Corp. All rights reserved. ZyXEL, ZyXEL logo are registered trademarks of ZyXEL Communications Corp. All other brands, product names, or trademarks mentioned are the property of their respective owners. All specifications are subject to change without notice.

Specifications

| Model | USG 20 | USG 20W | USG 50 | USG 100 | USG 100-PLUS | USG 200 | |
|---|---|--|---|--|---|---|---|
| Product photo |  |  |  |  |  |  | |
| Hardware Specifications | | | | | | | |
| 10/100/1000 interfaces (Copper) | 4 x LAN/DMZ, 1 x WAN | 4 x LAN/DMZ, 1 x WAN | 4 x LAN/DMZ, 2 x WAN | 5 x LAN/DMZ, 2 x WAN | 4 x LAN/DMZ, 2 x WAN | 5 x LAN/DMZ, 2 x WAN, 1 x OPT | |
| USB ports | 1 | 1 | 2 | 2 | 2 | 2 | |
| Card slot | - | - | - | 1 | - | 1 | |
| System Capacity & Performance^{*1} | | | | | | | |
| SPI firewall throughput^{*2} (Mbps) | 175 | 175 | 225 | 225 | 600 | 250 | |
| VPN throughput (AES)^{*3} (Mbps) | 75 | 75 | 90 | 90 | 150 | 90 | |
| UTM throughput (AV+IDP)^{*4} (Mbps) | - | - | 30 | 30 | 30 | 40 | |
| Unlimited user licenses | Yes | Yes | Yes | Yes | Yes | Yes | |
| Max. sessions^{*5} | 10,000 | 10,000 | 10,000 | 20,000 | 40,000 | 40,000 | |
| New session rate | 1,000 | 1,000 | 1,200 | 1,200 | 1,200 | 1,200 | |
| Max. concurrent IPSec VPN tunnels | 5 | 5 | 10 | 50 | 50 | 100 | |
| Max. concurrent SSL VPN users | 1 | 1 | 5 | 25 | 25 | 25 | |
| Included SSL VPN users | 1 | 1 | 2 | 2 | 2 | 2 | |
| Customizable zone | Yes | Yes | Yes | Yes | Yes | Yes | |
| IPv6 support | Yes | Yes | Yes | Yes | Yes | Yes | |
| Built-in Wireless LAN | | | | | | | |
| Standards | - | 802.11 b/g/n | - | - | - | - | |
| Antennas | - | 2 detachable | - | - | - | - | |
| Wi-Fi throughput^{*6} (Mbps) | - | 80 | - | - | - | - | |
| Maximum output power | - | 802.11b: 18.5 dBm @ 11 Mbps 802.11g: 15.5 dBm @ 54 Mbps 802.11n: 15.5 dBm @ 20 Mbps | - | - | - | - | |
| Radio sensitivity | - | 802.11b: ≤ -83 dBm @ 11 Mbps 802.11g: ≤ -70 dBm @ 54 Mbps 802.11n: ≤ -64 dBm @ 20 Mbps | - | - | - | - | |
| Power Requirement | | | | | | | |
| Input voltage | 100 - 240 V AC, 50/60 Hz, 1.5 A | 100 - 240 V AC, 50/60 Hz, 1.5 A | 100 - 240 V AC, 50/60 Hz, 1.5 A | 100 - 240 V AC, 50/60 Hz, 2 A | 100 - 240 V AC, 50/60 Hz, 1.5 A | 100 - 240 V AC, 50/60 Hz, 2 A | |
| Power rating | 15 W Max. | 16 W Max. | 17 W Max. | 20 W Max. | 17 W Max. | 20 W Max. | |
| Power consumption (watt) | 15 | 16 | 17 | 20 | 17 | 20 | |
| Physical Specifications | | | | | | | |
| Item | Dimensions (WxDxH)(mm/in.) | 216 x 140 x 33/ 8.50 x 5.51 x 1.30 | 216 x 140 x 33/ 8.50 x 5.51 x 1.30 | 242 x 167 x 35.5/ 9.53 x 6.57 x 1.40 | 242 x 175 x 35.5/ 9.53 x 6.89 x 1.40 | 242 x 167 x 35.5/ 9.53 x 6.57 x 1.40 | 242 x 175 x 35.5/ 9.53 x 6.89 x 1.40 |
| | Weight (kg/lb.) | 0.38/0.84 | 0.42/0.93 | 1.2/2.65 | 1.2/2.65 | 1.2/2.65 | 1.2/2.65 |
| Packing | Dimensions (WxDxH)(mm/in.) | 305 x 205 x 106/ 12.01 x 8.07 x 4.17 | 305 x 205 x 106/ 12.01 x 8.07 x 4.17 | 375 x 238 x 108/ 14.76 x 9.37 x 4.25 | 296 x 158 x 241/ 11.65 x 6.22 x 9.49 | 375 x 238 x 108/ 14.76 x 9.37 x 4.25 | 296 x 158 x 241/ 11.65 x 6.22 x 9.49 |
| | Weight (kg/lb.) | 1/2.20 | 1.1/2.43 | 2.4/5.29 | 2.7/5.95 | 2.4/5.29 | 3/6.61 |
| Environmental Specifications | | | | | | | |
| Operating temperature | 0°C to 40°C/32°F to 104°F | | | | | | |
| Storage temperature | -30°C to 60°C/-22°F to 140°F | | | | | | |
| Operating humidity | 5% to 90% (non-condensing) | | | | | | |
| MTBF (hr) | 323,269 | 301,502 | 871,265 | 323,823 | 871,265 | 323,823 | |

Note:

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: UTM (AV and IDP) throughput measured using the industry standard IXIA IxLoad testing tool (1,460-byte HTTP packets).

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

*6: Wireless throughput measured using the industry standard IXIA IxLoad testing tool (802.11n, 20 MHz, WPA2-PSK).